OIPE JC10
MAY 24 2004
PATENT & TRADEMARK OFFICE

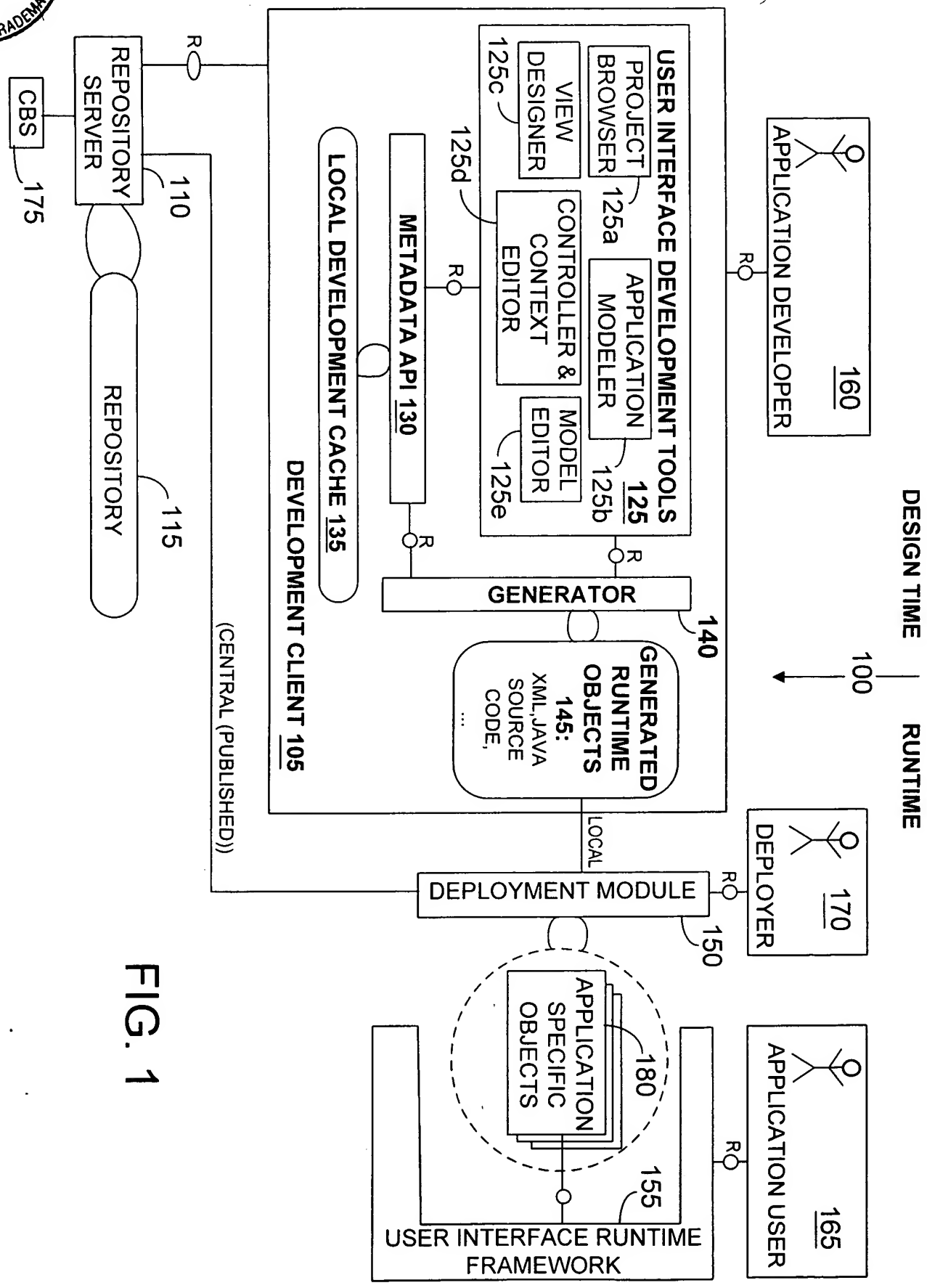

FIG. 1

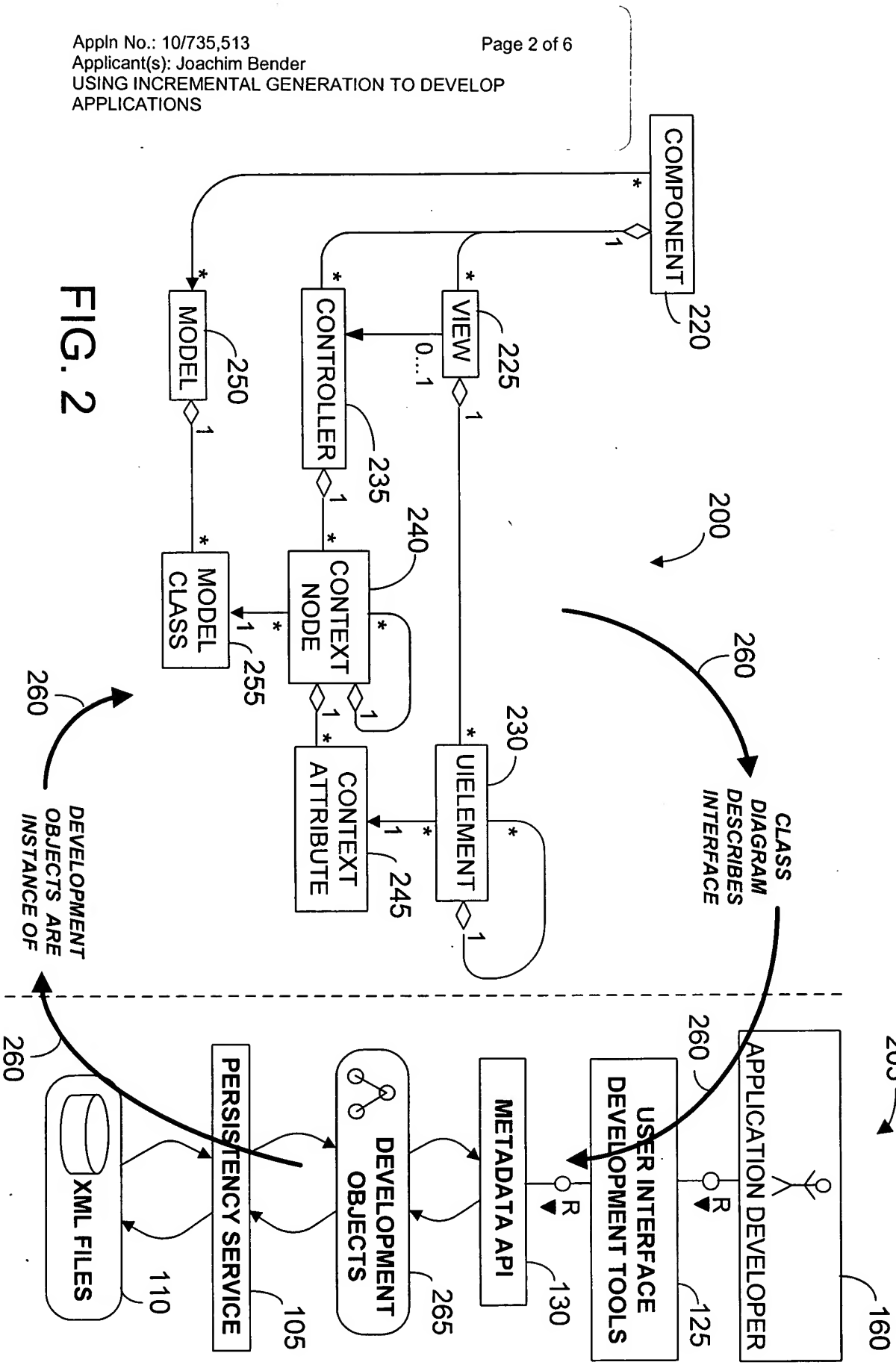
COMPONENT
220
VIEW
225
CONTROLLER
235
MODEL
250
CONTEXT NODE
240
MODEL CLASS
255
UIELEMENT
230
CONTEXT ATTRIBUTE
245
200
260
CLASS DIAGRAM DESCRIBES INTERFACE
DEVELOPMENT OBJECTS ARE INSTANCE OF
205
APPLICATION DEVELOPER
160
USER INTERFACE DEVELOPMENT TOOLS
125
METADATA API
130
DEVELOPMENT OBJECTS
265
PERSISTENCY SERVICE
105
XML FILES
110
R

FIG. 2

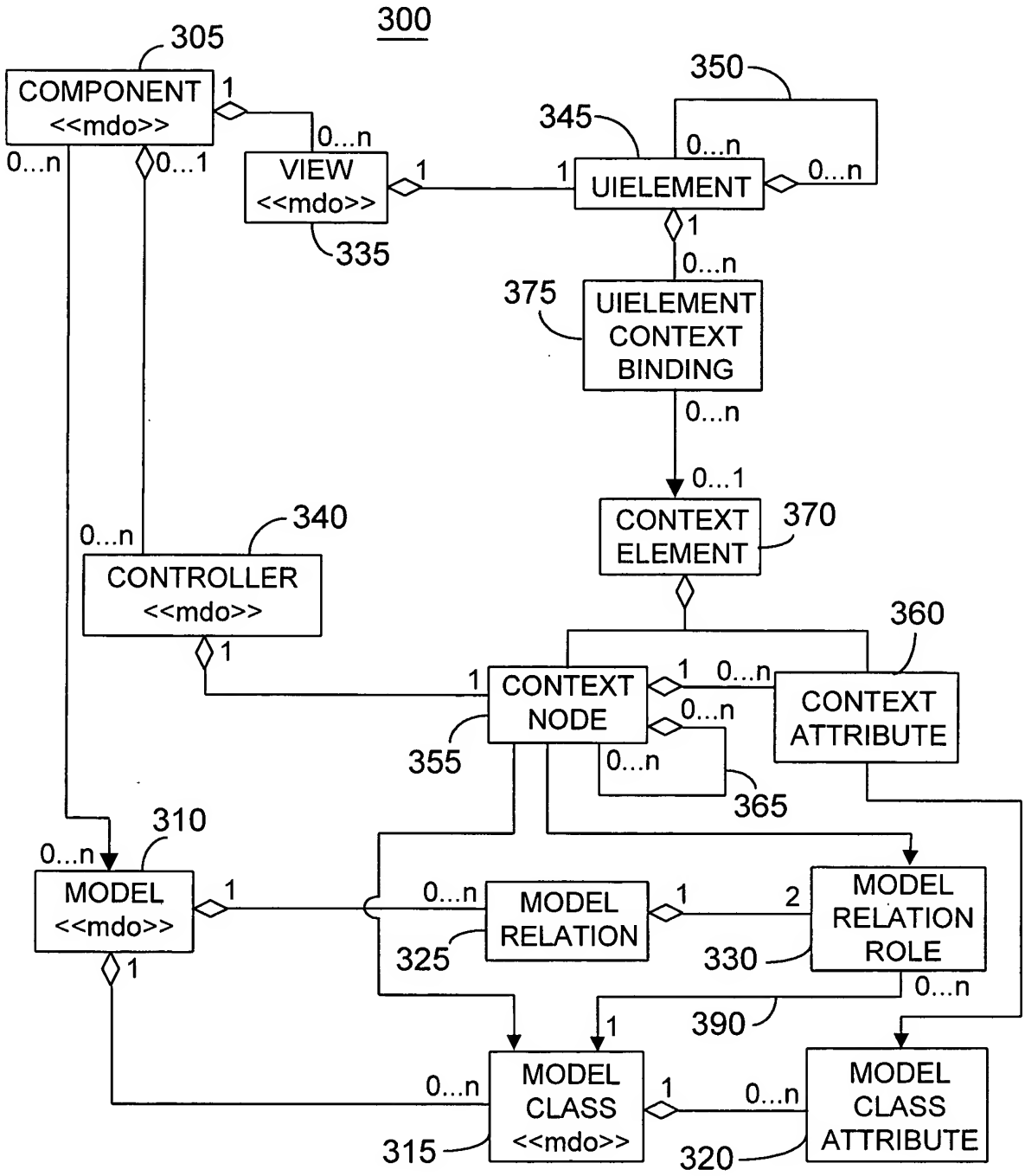
300
305
COMPONENT
<<mdo>>
1
0...n
0...n
0...1
VIEW
<<mdo>>
1
335
345
350
0...n
1
UIELEMENT
0...n
1
0...n
375
UIELEMENT
CONTEXT
BINDING
0...n
0...1
CONTEXT
ELEMENT
370
340
0...n
CONTROLLER
<<mdo>>
1
360
1
CONTEXT
NODE
1
0...n
CONTEXT
ATTRIBUTE
0...n
355
0...n
365
310
0...n
MODEL
<<mdo>>
1
0...n
MODEL
RELATION
1
2
MODEL
RELATION
ROLE
325
330
0...n
390
1
0...n
MODEL
CLASS
<<mdo>>
1
0...n
MODEL
CLASS
ATTRIBUTE
315
320

FIG. 3

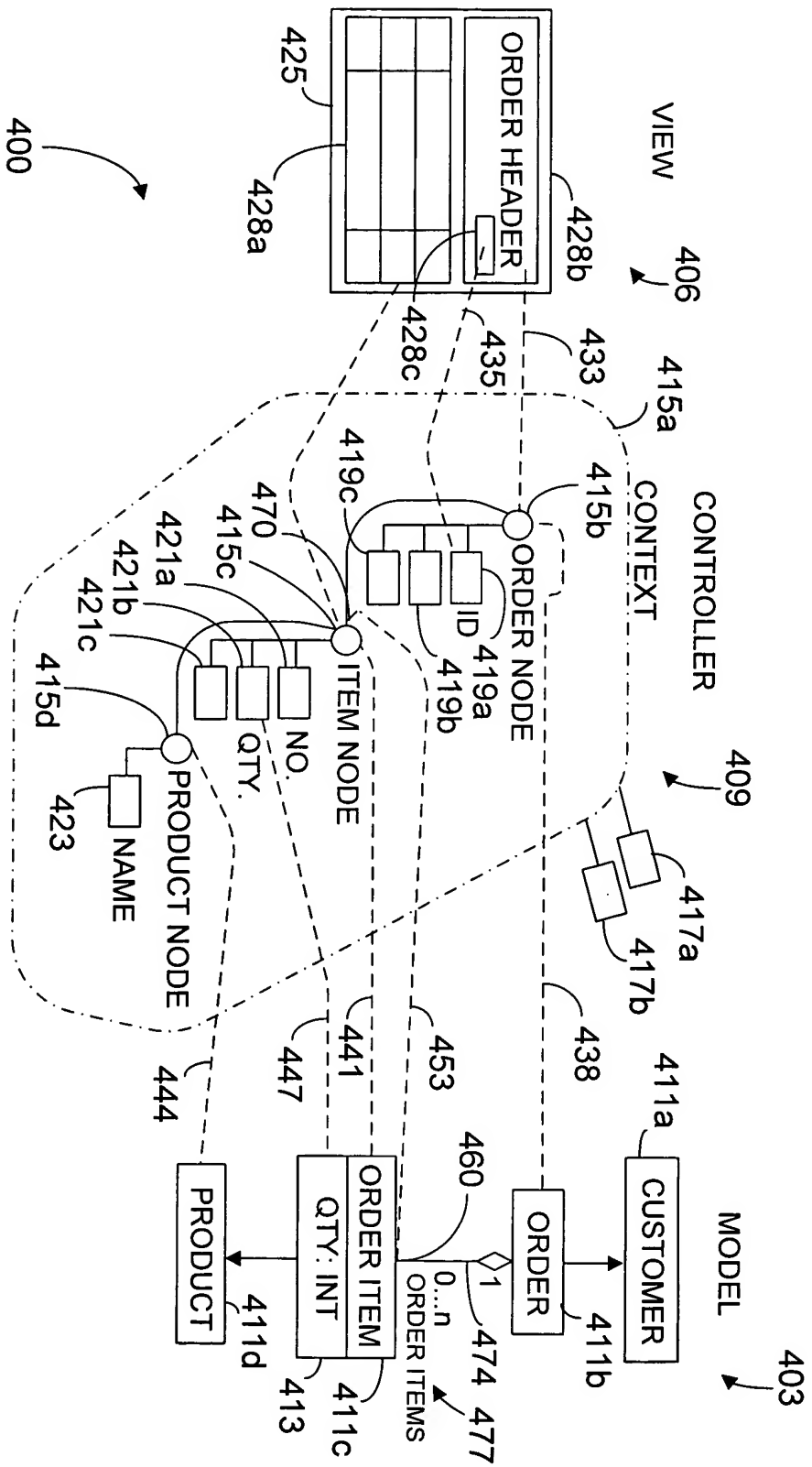
400
VIEW
406
ORDER HEADER
425
428a
428b
428c
435
433
CONTROLLER
409
415a
CONTEXT
415b
ORDER NODE
419c
ID
419a
419b
470
415c
ITEM NODE
421a
421b
421c
NO.
QTY.
415d
PRODUCT NODE
423
NAME
417a
417b
MODEL
403
438
411a
CUSTOMER
411b
ORDER
460
1
0...n
474
ORDER ITEMS
477
453
441
ORDER ITEM
QTY: INT
411c
413
447
444
PRODUCT
411d

FIG. 4

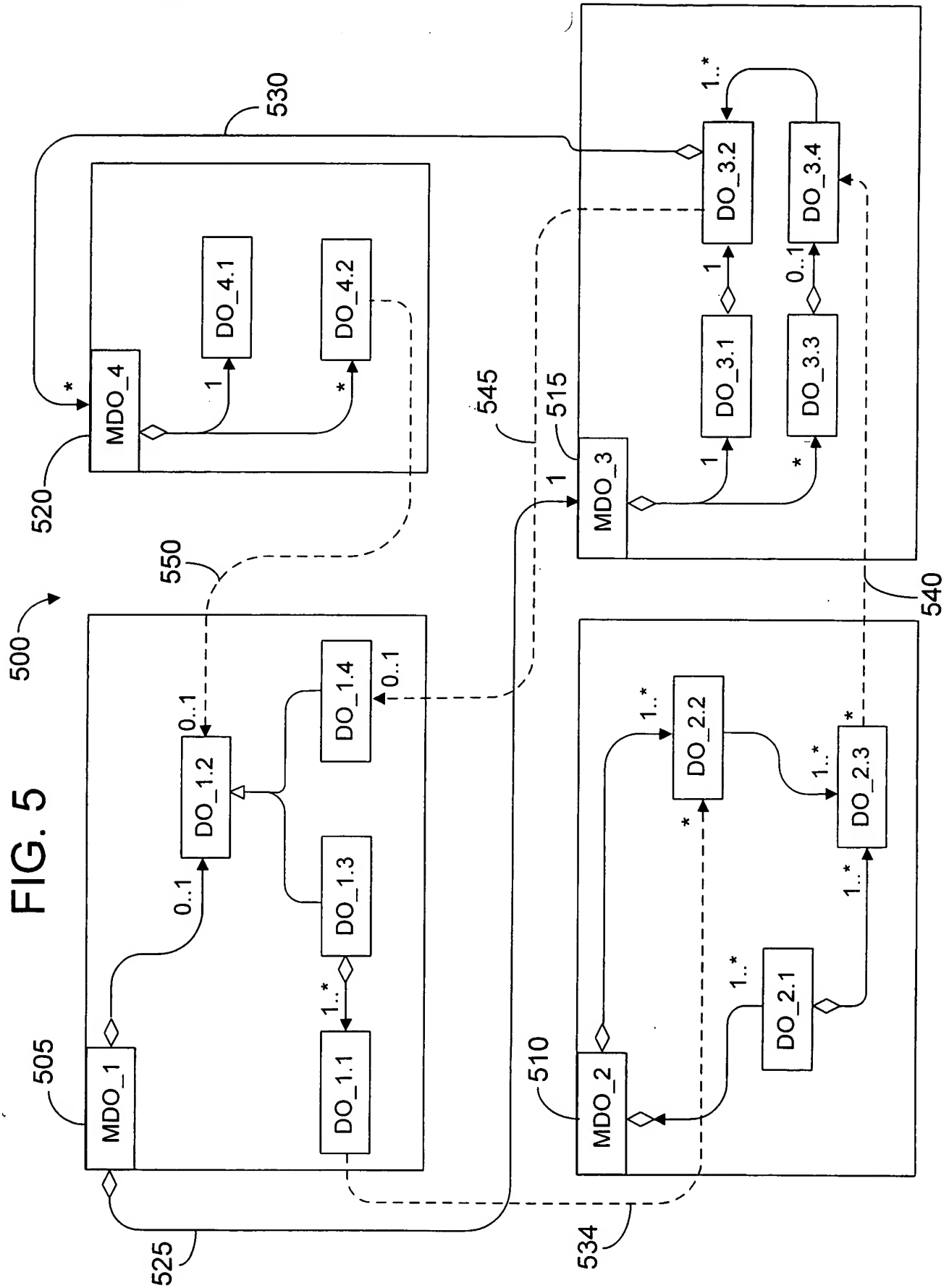
500
505
MDO_1
DO_1.1
DO_1.2
DO_1.3
DO_1.4
0..1
1..*
525
510
MDO_2
DO_2.1
DO_2.2
DO_2.3
534
515
MDO_3
DO_3.1
DO_3.2
DO_3.3
DO_3.4
540
520
MDO_4
DO_4.1
DO_4.2
530
545
550

FIG. 5

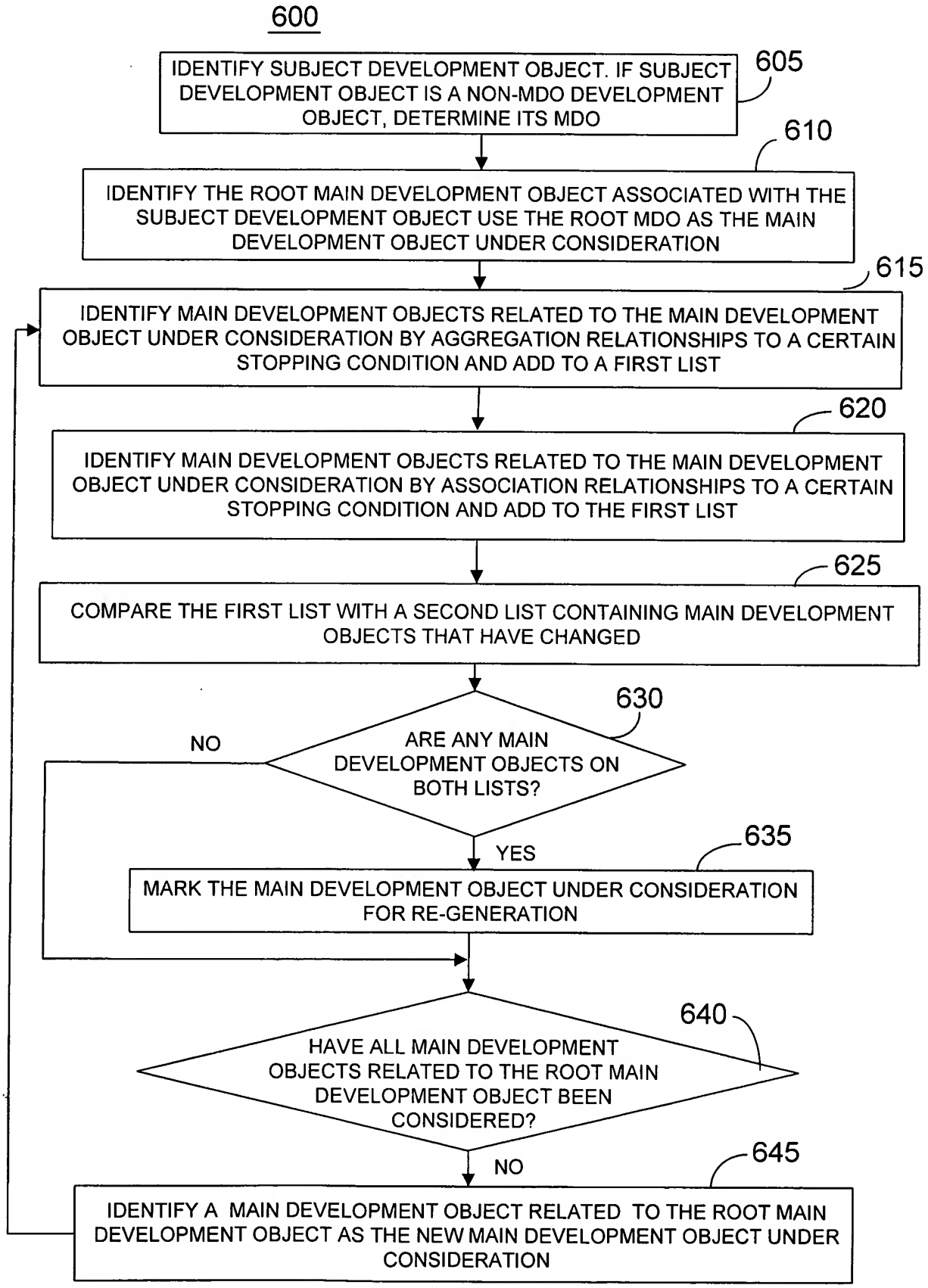
600
IDENTIFY SUBJECT DEVELOPMENT OBJECT. IF SUBJECT DEVELOPMENT OBJECT IS A NON-MDO DEVELOPMENT OBJECT, DETERMINE ITS MDO
605
IDENTIFY THE ROOT MAIN DEVELOPMENT OBJECT ASSOCIATED WITH THE SUBJECT DEVELOPMENT OBJECT USE THE ROOT MDO AS THE MAIN DEVELOPMENT OBJECT UNDER CONSIDERATION
610
IDENTIFY MAIN DEVELOPMENT OBJECTS RELATED TO THE MAIN DEVELOPMENT OBJECT UNDER CONSIDERATION BY AGGREGATION RELATIONSHIPS TO A CERTAIN STOPPING CONDITION AND ADD TO A FIRST LIST
615
IDENTIFY MAIN DEVELOPMENT OBJECTS RELATED TO THE MAIN DEVELOPMENT OBJECT UNDER CONSIDERATION BY ASSOCIATION RELATIONSHIPS TO A CERTAIN STOPPING CONDITION AND ADD TO THE FIRST LIST
620
COMPARE THE FIRST LIST WITH A SECOND LIST CONTAINING MAIN DEVELOPMENT OBJECTS THAT HAVE CHANGED
625
ARE ANY MAIN DEVELOPMENT OBJECTS ON BOTH LISTS?
630
NO
YES
MARK THE MAIN DEVELOPMENT OBJECT UNDER CONSIDERATION FOR RE-GENERATION
635
HAVE ALL MAIN DEVELOPMENT OBJECTS RELATED TO THE ROOT MAIN DEVELOPMENT OBJECT BEEN CONSIDERED?
640
NO
IDENTIFY A MAIN DEVELOPMENT OBJECT RELATED TO THE ROOT MAIN DEVELOPMENT OBJECT AS THE NEW MAIN DEVELOPMENT OBJECT UNDER CONSIDERATION
645

FIG. 6